

GRCRS Package Cover Sheet

Site Name RAU Oil Superior St. Former City

Site Address 1220 Superior St Tomah WI

BRRTS # 0342000137 Date of Closure Decision 9/20/2000

☒ Closure letter(s)

☒ Groundwater Use Restriction/Warranty Deed

☒ Yes ☐ No Off-site contamination present? (Include related documents)

Yes ☒ No Right-of-way contamination present? (Include related documents)

☒ General location map

479543.9687500 GPS x-coordinate

389210.3437500 GPS y-coordinate

☒ Detailed site map(s)

☒ Groundwater flow map(s)

☐ Latest map(s) showing extent or outline of plume

☒ Latest table(s) of analytical results (soil results included only if soil deed restriction is incorporated into groundwater use restriction document)

If available:

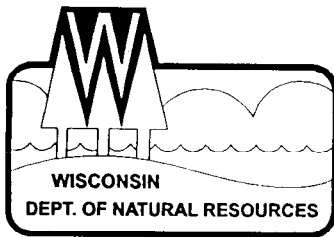
☐ Legal description

286-380-9-11 County and Parcel I.D./Tax Parcel No.

☒ Geologic cross sections

☒ Isoconcentrations map(s)





## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters  
1300 W. Clairemont Avenue  
PO Box 4001  
Eau Claire, Wisconsin 54702-4001  
Telephone 715-839-3700  
FAX 715-839-6076  
TDD 715-839-2786

January 27, 2000

DNR ID #03-42-000137  
Monroe County

Mr. John Rau  
1796 Seagrove Drive  
Vero Beach, FL 32963-2609

**SUBJECT: FORMER CITGO QUIK STOP - Tomah**  
Conditional Closure Approval

Dear Mr. Rau:

On October 20, 1989, the Department of Natural Resources provided a notice to you that the degree and extent of petroleum contamination at the above-referenced site was required to be investigated and remediated. On August 10, 1998, we received a case closeout request, which was subsequently denied, and further investigation was required. On August 20, 1999, we received a second case closeout request, together with the appropriate fee. On September 28, 1999, the above-named site was reviewed by the West Central Region Closeout Committee for a determination as to whether or not the case qualified for close out under ch. NR 726, Wis. Adm. Code. The committee reviews environmental remediation cases for compliance with state laws, standards and guidelines to maintain consistency in the closeout of cases.

In a letter dated October 11, 1999, you were informed that the committee determined that, although no further work is required on the former Citgo Quik Stop site, closure was denied until off-site conditions on the adjacent property are adequately characterized. Your consultant has asked the Department to review this decision. The Department's concern is that the data presented shows groundwater contamination, above Enforcement Standards (ESs) is likely migrating onto the Badger Restaurant in the vicinity of CMW-2, and closure is only possible if a groundwater use restriction is recorded for both properties. In a telephone conversation on Tuesday, January 25, 2000, your consultant agreed that contaminated groundwater above Enforcement Standards (ESs) is likely migrating onto the Badger Restaurant near the north property line and they will pursue a groundwater use restriction from the owner of the Badger Restaurant property.

Based on the investigative and remedial documentation provided to the Department, it appears that the petroleum soil and groundwater contamination at the above-referenced site has been remediated to the extent practicable. Therefore, the Department considers the case "conditionally closed," having determined that no further action is necessary on the site at this time if the following conditions are met:

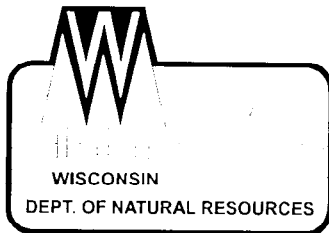
1. Due to the fact that the latest groundwater analytical results indicate exceedances of chapter NR 140, Wisconsin Administrative Code, enforcement standards on the above-referenced property **and likely a short distance onto the adjacent property**, a groundwater use restriction which meets the requirements of section NR 726.05(8)(am), Wis. Adm. Code, must be recorded with the County Register of Deeds within 30 days of the effective date of this letter for **both** the former Citgo Property as well as the adjacent Badger Restaurant property.

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*Quality Natural Resources Management  
Through Excellent Customer Service*







## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters  
1300 W. Clairemont Avenue  
PO Box 4001  
Eau Claire, Wisconsin 54702-4001  
Telephone 715-839-3700  
FAX 715-839-6076  
TDD 715-839-2786

September 20, 2000

BRRTS #03-42-000137  
Monroe County

Mr. John Rau  
1796 Seagrove Drive  
Vero Beach, FL 32963-2609

SUBJECT: **FORMER CITGO QUIK STOP – Tomah**  
Final Case Closure

Dear Mr. Rau:

In a letter dated January 27, 2000, you were informed that your site qualified for conditional close out under ch. NR 726, Wis. Adm. Code.

Based on the investigative and remedial documentation, which you provided to the Department, the Department granted conditional closure status to the site. The two conditions include: placement of a deed restriction on both the former Citgo Quik Stop property and the adjacent Badger Restaurant property, and proper abandonment of all monitoring wells. On September 19, 2000, the Department received a copy of the recorded deed restriction. In addition, the condition of closure requiring proper monitoring well abandonment has also been met, as documented in correspondence received from Envirogen on April 14, 2000. Therefore, the Department considers the case "closed," having determined, pursuant to ch. NR 726, Wis. Adm. Code, that no further action is necessary at the site.

I appreciate your concern and cooperation in this matter. If you should have additional questions related to this matter please feel free to contact me at (715) 839-1604.

Sincerely,

  
Wendy Anderson  
Engineer

c: Dale Ziege, RR/3  
Paul Overlien, Envirogen, P.O. Box 684, Onalaska, WI 54650-0684  
FILE



488677

Document Number

GROUNDWATER USE RESTRICTION

RECORDS

VOL 319 PAGE 815

Declaration of Restrictions

In Re: Lot Three (3), and the North 1/3 of Lot Four, Block  
Nineteen (19), Original Plat, City of Tomah, Monroe  
County, Wisconsin.

REGISTER'S OFFICE  
County of Monroe, Wis.

Received for record this 21  
day of July, 20 00  
at 10:55 o'clock A. M.

John D. Biele Registers  
16<sup>00</sup> pd Endreaga

Recording Area

Name and Return Address

THOMAS O. MILES  
1210 Superior Ave  
Tomah Wis 54660

STATE OF WISCONSIN )  
COUNTY OF Monroe ) ss

286-380-9-11  
Parcel Identification Number (PIN)

WHEREAS, Adel Corporation, a Wisconsin Corporation, is the owner of the above-described property.

WHEREAS, petroleum-contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards exists on this property from one or more gasoline discharges which occurred on the John A. Rau Trust site (former Citgo Quick Stop), an adjacent property. Petroleum-contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on the adjacent property at the following location on the following dates: CMW-2 (December 9, 1998 – benzene at 14 ppb, ethylbenzene at 1200 ppb, toluene at 1,000 ppb, xylenes at 5600 ppb, trimethylbenzenes at 1310 ppb and naphthalene at 130 ppb; March 10, 1999 – benzene at 29 ppb, xylenes at 850 ppb and naphthalene at 59 ppb; July 1, 1999 – benzene at 18 ppb, xylenes at 1430 ppb, and naphthalene at 46 ppb). This well is identified on Attachment A which is attached and hereby made a part of this restriction.

WHEREAS, it is the desire and intention of the property owner to impose on this property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the adjacent John A. Rau Trust property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code, groundwater standards within the boundaries of this property.



WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.


This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

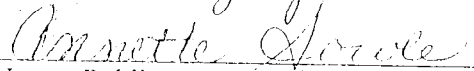
By signing this document, Tom Miles asserts that he is duly authorized to sign this document on behalf of Adel Corporation, a Wisconsin Corporation.



IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 6 day of July, 2000.

Signature:   
Printed Name: THOMAS O MIELE  
Title: Owner Per ad valorem

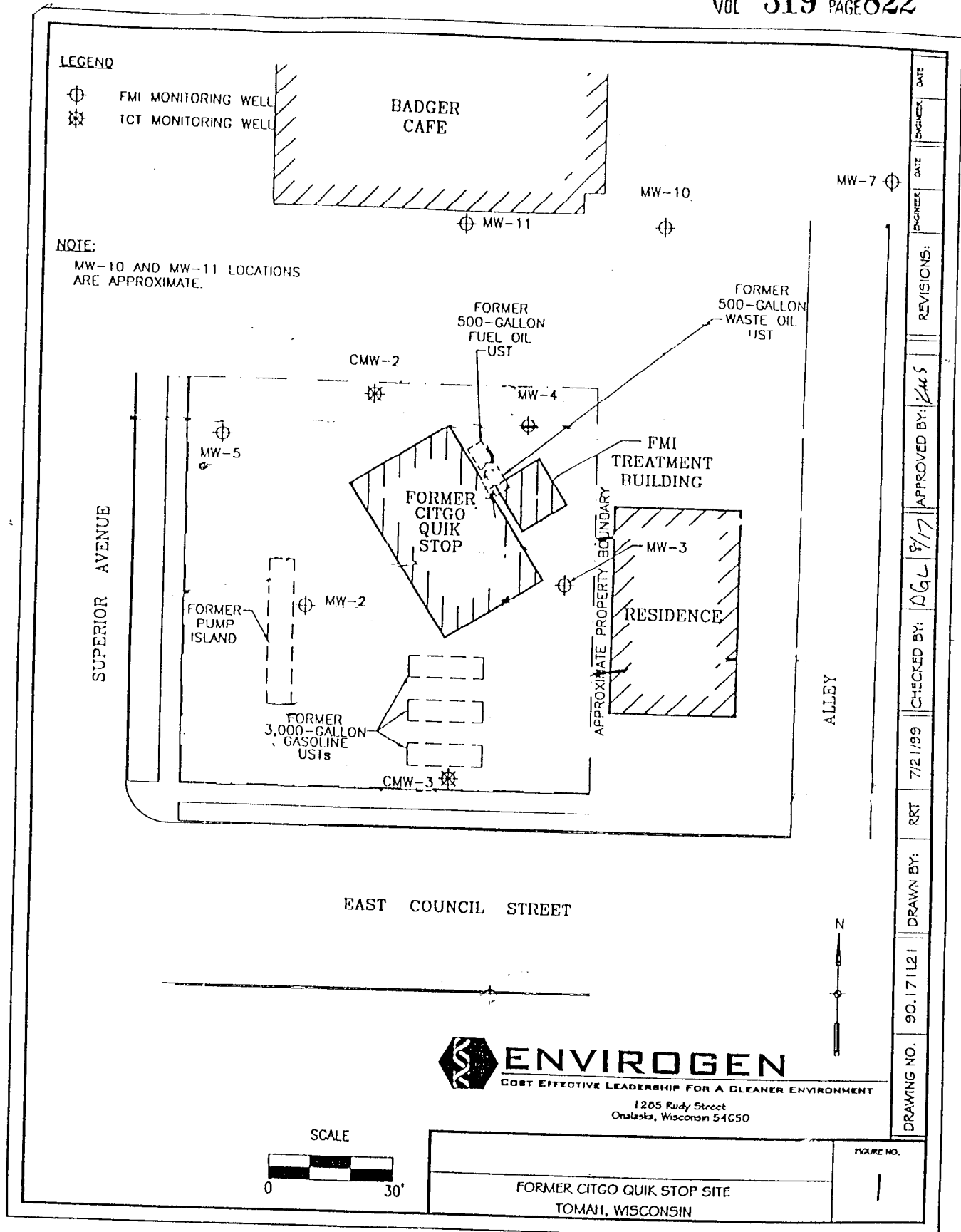
Subscribed and sworn to before me  
this 6 day of July, 2000.

  
Notary Public, State of W.I.  
My commission 05-12-02

This document was drafted by the Wisconsin Department of Natural Resources.



RECORDS VOL 319 PAGE 822





488677

RECORDS

VOL

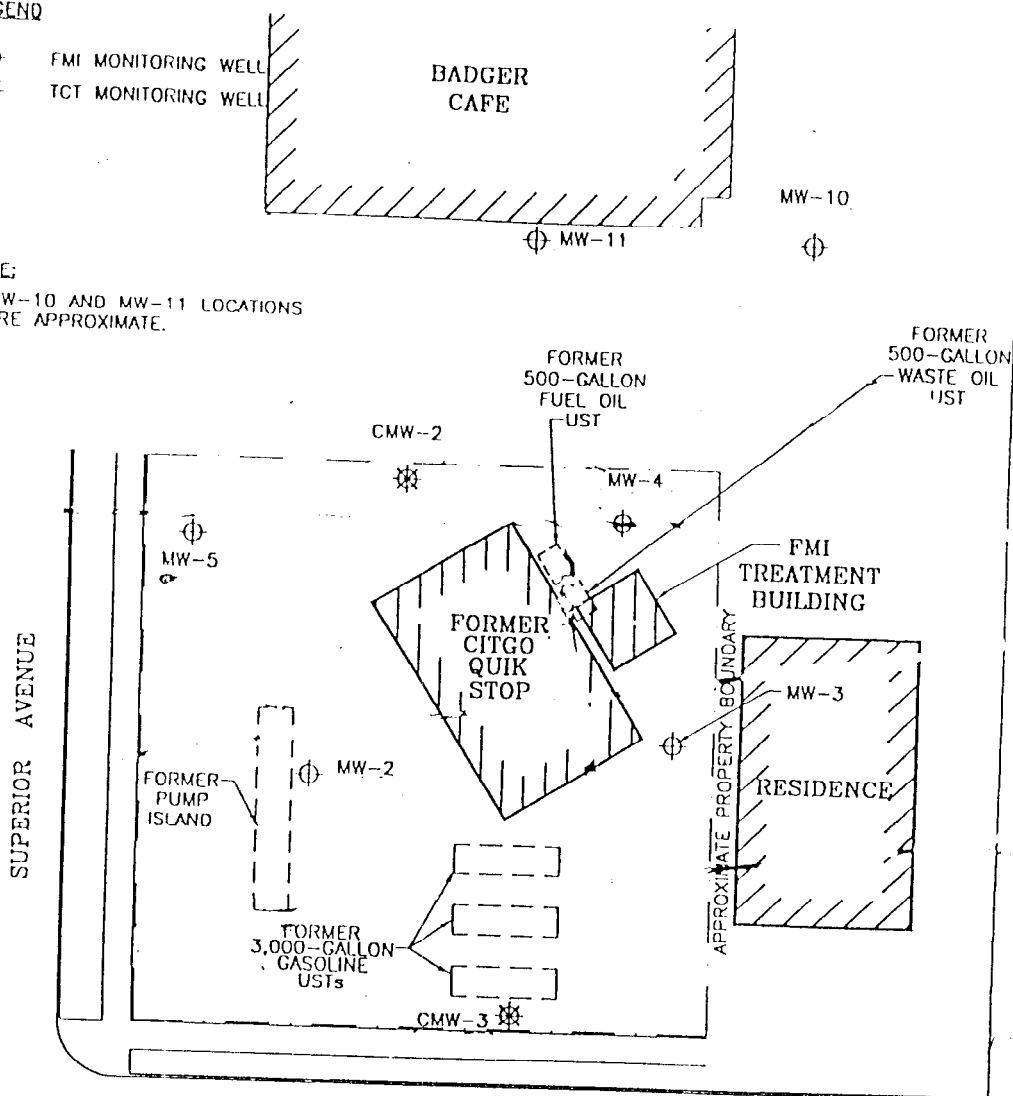
319 PAGE 818

LEGEND

- ⊕ FMI MONITORING WELL
- ⊗ TCT MONITORING WELL

NOTE:

MW-10 AND MW-11 LOCATIONS ARE APPROXIMATE.



EAST COUNCIL STREET



**ENVIROGEN**

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

1205 Rudy Street  
Oshkosh, Wisconsin 54601

SCALE



DRAWING NO.	90.171 L21	DRAWN BY:	RST	CHECKED BY:	DGL 8/17	APPROVED BY:	LMS	REVISIONS:	ENGINEER	DATE

FIGURE NO.

1

FORMER CITGO QUIK STOP SITE  
TOMAH, WISCONSIN



**488678**

Document Number

## GROUNDWATER USE RESTRICTION

RECORDS VOL **319** PAGE **819**Declaration of Restrictions

In Re: The South two-thirds of Lot 4, Block 19, Original Plat to the City of Tomah EXCEPTING, the East 50 feet of the South two-thirds thereof.

## REGISTER'S OFFICE

County of Monroe, Wis.

Received for record this 21  
day of July, 20 00  
at 10:55 o'clock A. M.

*John A. Rau* Registers

*16<sup>00</sup> pd Enders*  
Recording Area

## Name and Return Address

*John A. Rau*  
*1796 Seagrave Drive*  
*Vero Beach, FL 32963*

*286-1900-0000**386-380-11-1A*

Parcel Identification Number (PIN)

WHEREAS, the John A. Rau Trust, dated April 6, 1988, is the owner of the above-described property.

WHEREAS, one or more gasoline discharges have occurred on this property. Petroleum-contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the following locations on the following dates: **MW-4** (July 1, 1999 - xylenes at 930 ppb; March 10, 1999 - benzene at 25 ppb, xylenes at 1500 ppb, trimethylbenzenes at 560 ppb, naphthalene at 55) and **CMW-2** (December 9, 1998 - benzene at 14 ppb, ethylbenzene at 1200 ppb, toluene at 1,000 ppb, xylenes at 5600 ppb, trimethylbenzenes at 1310 ppb and naphthalene at 130 ppb; March 10, 1999 - benzene at 29 ppb, xylenes at 850 ppb and naphthalene at 59 ppb; July 1, 1999 - benzene at 18 ppb, xylenes at 1430 ppb, and naphthalene at 46 ppb). These wells are identified on the Attachment A.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code, groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm.



Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, John A. Rau asserts that he is duly authorized to sign this document on behalf of the John A. Rau Trust, dated April 6, 1988.



IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 5<sup>th</sup> day of July, 2000.

Signature: [Signature]

Printed Name: John A. Rau

Title: FDS# 2000-461-22-0062-0

Subscribed and sworn to before me  
this 5<sup>th</sup> day of July, 2000.

[Signature]

Notary Public, State of Florida

My commission # CC 753392  
Exp 6/18/02

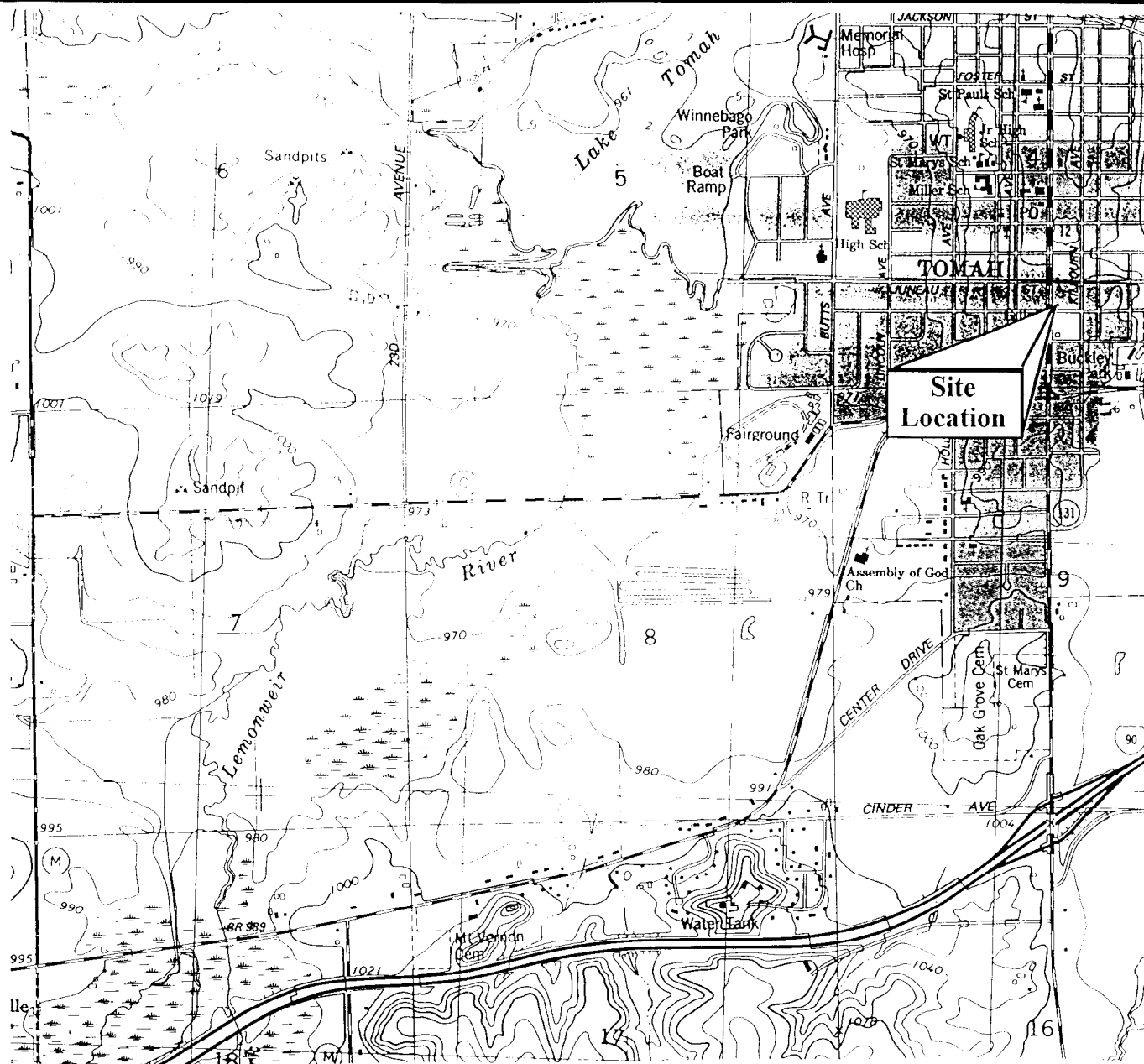


Karen S. Clothier  
MY COMMISSION # CC753392 EXPIRES  
June 18, 2002  
BONDED THRU TROY FAIR INSURANCE, INC.

This document was drafted by the Wisconsin Department of Natural Resources with final edits made by Envirogen, Inc.

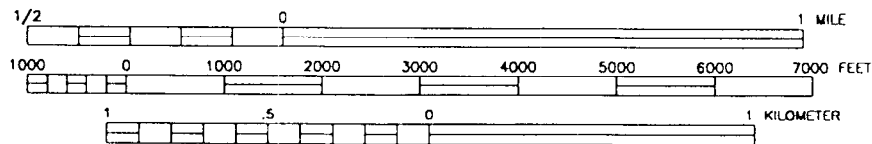


DRAWING NO. 90.171L1  
 DRAWN BY: RRT  
 8/5/98  
 CHECKED BY: JG  
 APPROVED BY: THT  
 5/18



(USGS 1983)  
TOMAH QUADRANGLE

SCALE  
1:24000



CONTOUR INTERVAL 20 FEET



LOCATION

**Site Location Map**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

FIGURE NO.

**1**

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

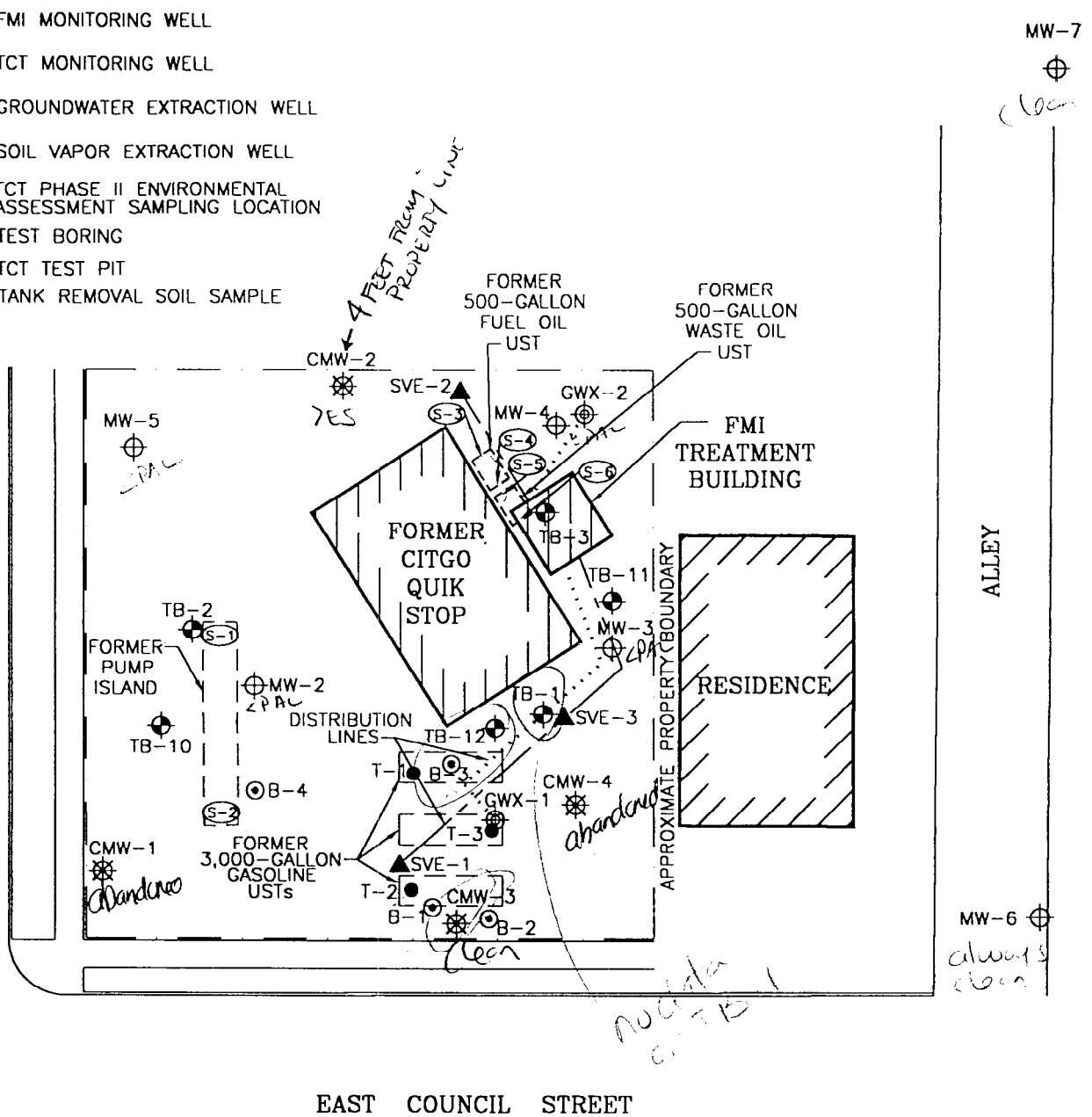


DRAWING NO. 90.171L2  
 DRAWN BY: RRT  
 CHECKED BY: 0608/5/98  
 APPROVED BY: 784 8.5.98

**LEGEND**

- ⊕ FMI MONITORING WELL
- ⊗ TCT MONITORING WELL
- ⊕ GROUNDWATER EXTRACTION WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ⊙ TCT PHASE II ENVIRONMENTAL ASSESSMENT SAMPLING LOCATION
- ⊕ TEST BORING
- TCT TEST PIT
- (S-1) TANK REMOVAL SOIL SAMPLE

SUPERIOR AVENUE



**Site Plan View and  
 Remedial System Configuration  
 Former Citgo Quik Stop Site  
 Tomah, Wisconsin**

FIGURE NO.

2

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.



LEGEND

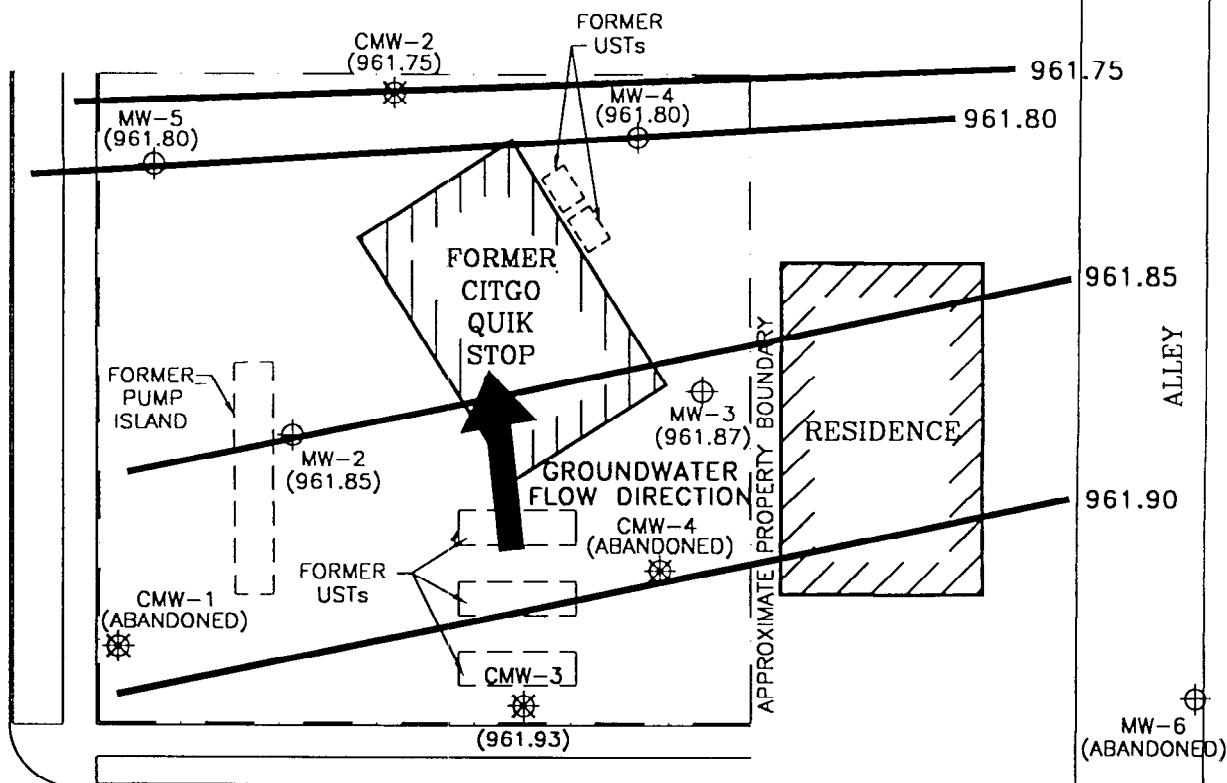
⊕ FMI MONITORING WELL

⊗ TCT MONITORING WELL

( ) GROUNDWATER ELEVATION IN FEET ABOVE MSL

959.90 ISOELEVATION CONTOUR

SUPERIOR AVENUE



EAST COUNCIL STREET

Fluid



Management

A Division of ENVIROGEN, Inc.

SCALE



Postremediation Potentiometric Surface

(6/11/98)

Former Citgo Quik Stop Site  
Tomah, Wisconsin

FIGURE NO.

10

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

784 8598

APPROVED BY:

8598

CHECKED BY:

8/5/98

RRT

DRAWN BY:

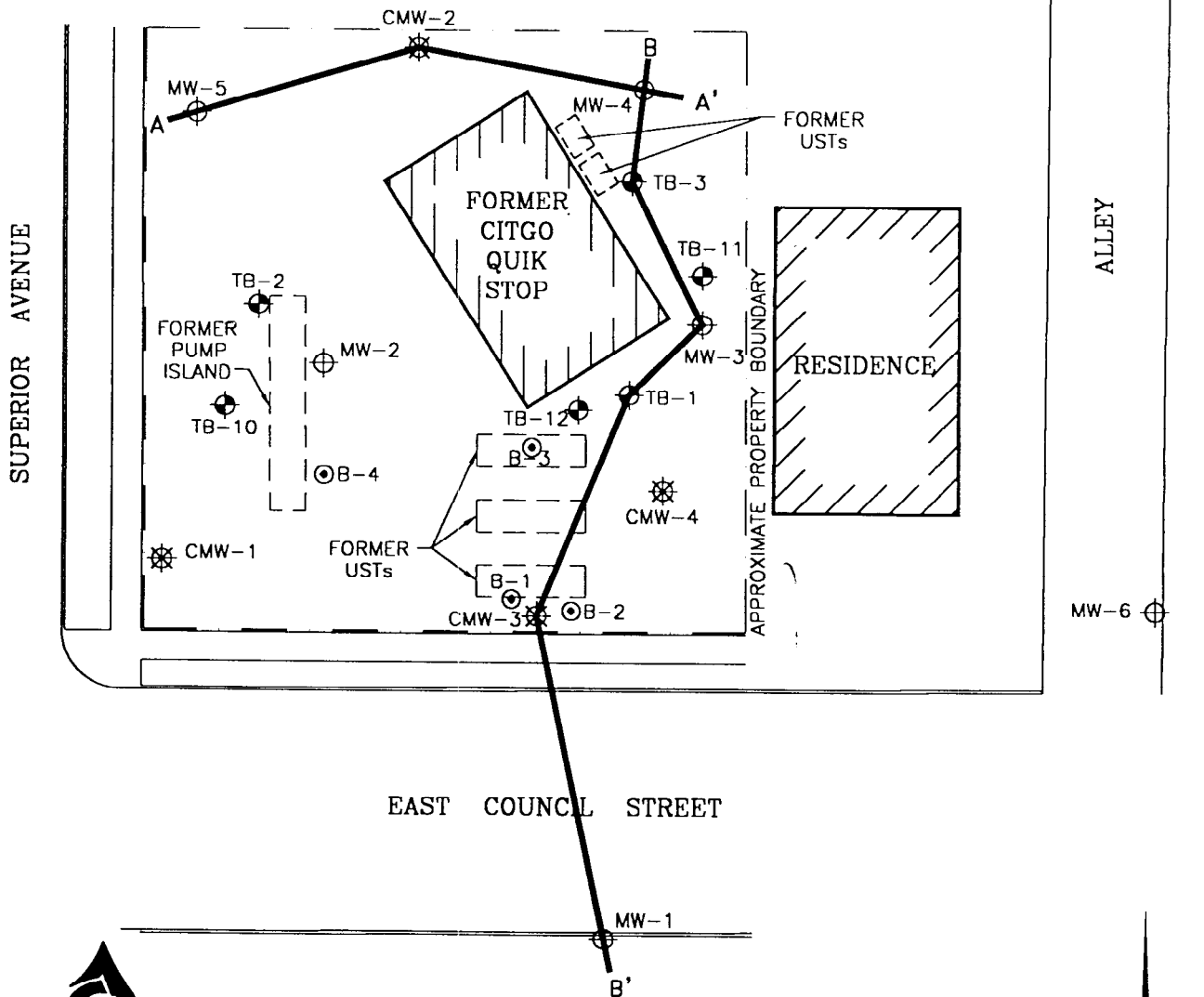
90.17110

DRAWING NO.



# LEGEND

- ⊕ FMI MONITORING WELL
- ⊗ TCT MONITORING WELL
- ⊕ FMI TEST BORING
- ⊙ TCT PHASE II ENVIRONMENTAL ASSESSMENT SAMPLING LOCATION



**Cross-Section Plan View  
Former Citgo Quik Stop Site  
Tomah, Wisconsin**

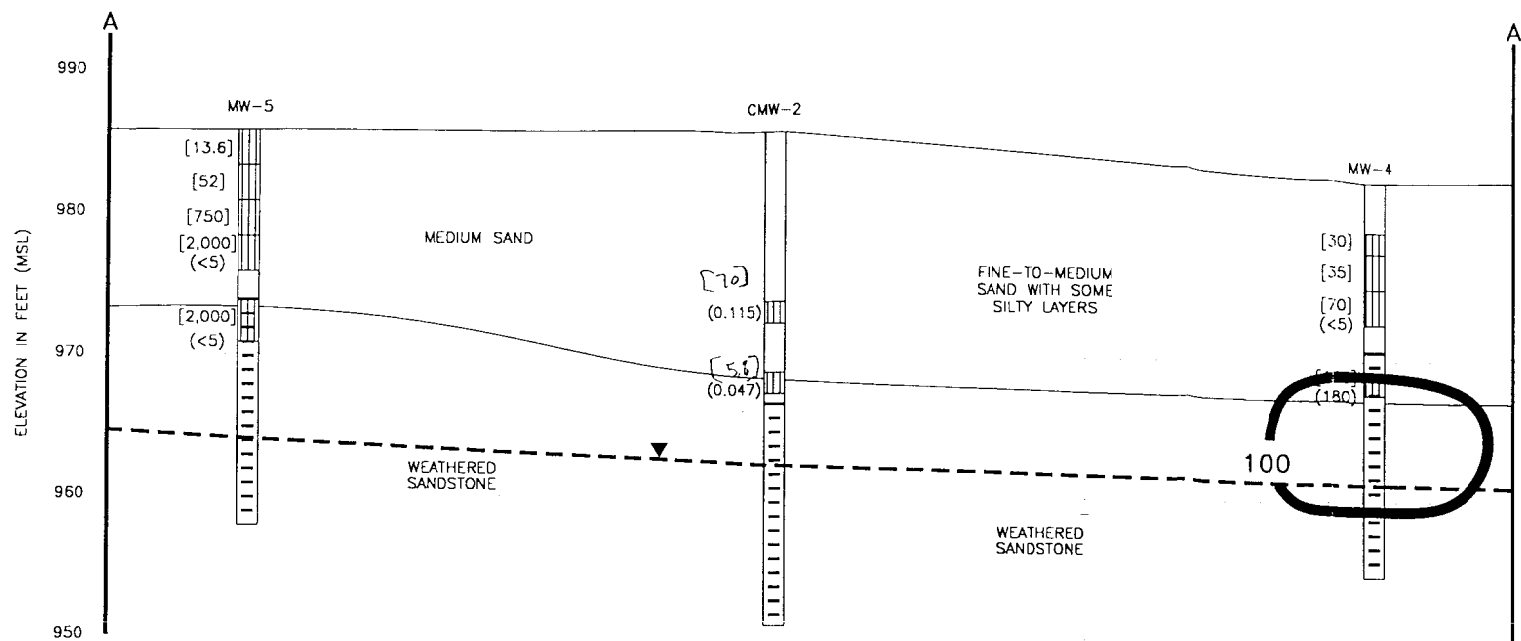
FIGURE NO.

**3**

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

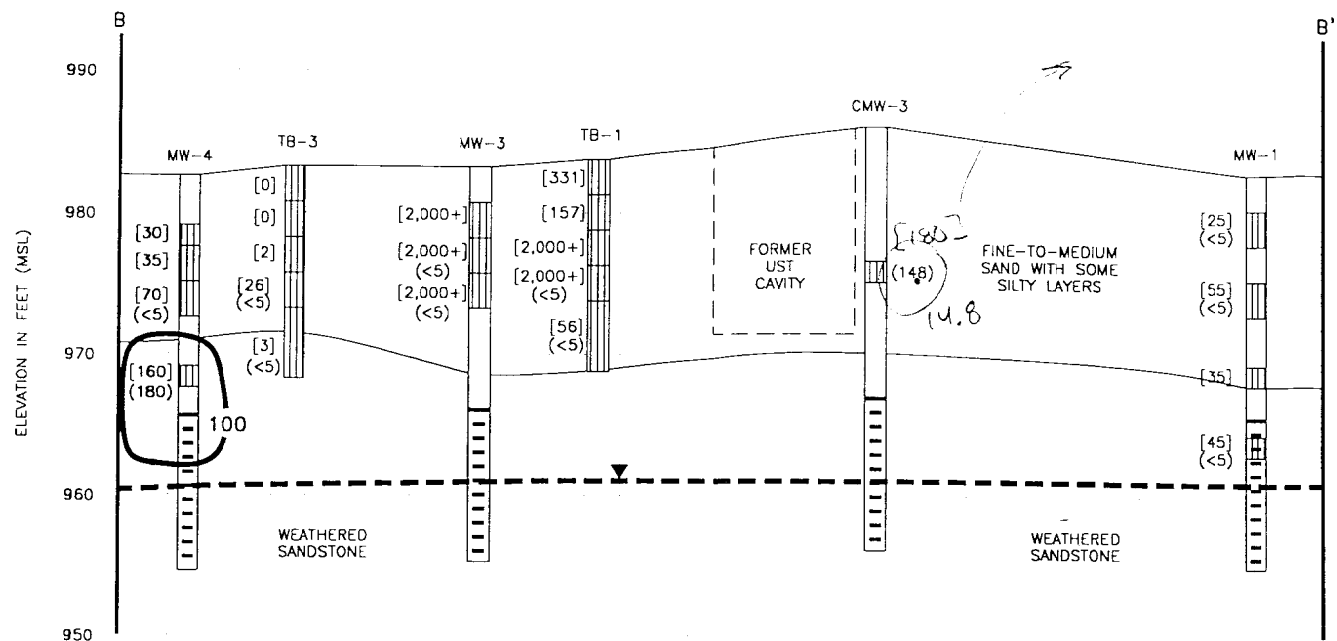
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CHECKED BY: 06C 8/5/98  
APPROVED BY: THT 85-98



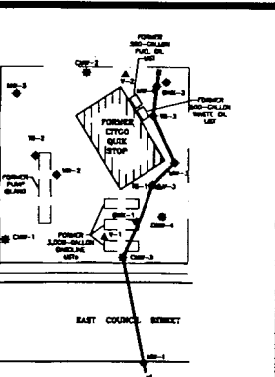


4





# PLAN VIEW



- LEGEND**
- SCREENED INTERVAL
  - SAMPLE INTERVAL
  - [ ] PID READING IN ppmv
  - ( ) TPH CONCENTRATION IN ppm
  - 100 ISOCONCENTRATION CONTOUR
  - GROUNDWATER TABLE (6/13/91)

**NOTES:** THE CURRENT NR720 GENERIC SOIL STANDARD FOR GRO IS 100 ppm. GRO IS EQUIVALENT TO TPH AS GASOLINE.

SAMPLES FROM MW-1, MW-3, MW-4, TB-1, AND TB-3 COLLECTED 1/91.

SAMPLES FROM CMW-3 WERE COLLECTED 5/90.



**SCALE**

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 10'

**Soil TPH as Gasoline Distribution**  
**Cross-Section B-B'**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**


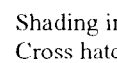
THE INFORMATION IN THIS FIGURE IS BASED ON DATA PROVIDED IN THE WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results CMW-1**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	NA	NA	NA	NA	NA	NA	NA	NA
4/15/92	-281	NA	NA	NA	NA	NA	NA	NA	NA
7/29/92	-176	1,335	70	395	135	NA	NA	60	NA
11/3/92	-79	390	22	140	92	<20	<20	<20	NA
2/02/93	12	400	18	150	60	6.5	3.8	<1.0	NA
4/15/93	84	62	1.6	18	6.8	<1.0	<1.0	<1.0	NA
8/18/93	209	160	1.9	30	8.2	<1.0	<1.0	34	NA
11/5/93	288	33	<1.0	6.3	<3.0	<1.0	<1.0	18	NA
3/11/94	414	3.6	4	1.8	<3.0	<1.0	<1.0	<1.0	NA
6/6/94	501	4.2	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/14/94	601	7.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	6.7	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	2	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	Abandoned 11/21/95							
2/27/96	1,132								
6/4/96	1,230								
9/25/96	1,343								
12/10/96	1,419								
2/27/97	1,498								
6/11/97	1,602								
9/2/97	1,685								
12/10/97	1,784								
3/9/98	1,875								
6/11/98	1,967								
10/14/98	2,092								
12/09/98	2,147								
03/10/99	2,238								
05/10/99	2,299								
07/01/99	2,360								
NR 140 ES		5	700	343	620	480	60	40	
NR 140 PAL		0.5	140	68.6	124	96	12	8	

Notes: All results are reported in ppb

 Shading indicates value equals or exceeds the NR 140 ES  
 Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
 MTBE: Methyl t-butyl ether  
 ES: Enforcement standard

NS: No standard  
 TMB: Trimethylbenzene  
 PAL: Preventive action limit


Checked by: DGL  
 Approved by: KMS




TABLE 4 (Continued)  
Groundwater Quality Analytical Results CMW-2  
Former Citgo Quik Stop Site  
Tomah, Wisconsin

Sample Date	Days Operating	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	NA	NA	NA	NA	NA	NA	NA	NA
4/15/92	-281	NA	NA	NA	NA	NA	NA	NA	NA
7/29/92	-176	<1.0	<1.0	<1.0	<3.0	NA	NA	<1.0	NA
11/3/92	-79	91	130	540	1,400	180	45	<45	NA
2/02/93	12	1,100	1,000	4,700	7,500	1,000	250	<200	NA
4/15/93	84	1,800	770	3,300	4,600	820	220	1,300	NA
8/18/93	209	370	1,500	8,200	9,600	1,300	440	<20	NA
11/5/93	288	370	670	3,900	5,700	1,100	280	1,80	NA
3/11/94	414	420	340	2,600	5,500	1,300	330	1,400	NA
6/6/94	501	79	<5.0	16	9.2	<5.0	<5.0	1,400	NA
9/14/94	601	47	1,200	3,900	5,600	1,100	280	<5.0	NA
12/1/94	679	62	290	720	1,500	580	160	<5.0	NA
3/22/95	790	19	17	11	71	100	33	59	NA
6/20/95	880	9.4	14	41	70	130	48	13	NA
9/21/95	973	24	16	66	110	170	<200	<10	NA
12/05/95	1,048	29	37	140	250	65	29	<100	NA
2/27/96	1,132	16	<5.0	<15	<15	60	28	23	NA
6/4/96	1,230	10	8.6	50	71	11	5.0	<5.0	NA
09/25/96	1,343	4.9	<1.0	<1.0	3.7	73	32	<1.0	NA
12/10/96	1,419	6.6	<1.0	<1.0	<3.0	78	32	<1.0	NA
2/27/97	1,498	<5.0	<0.44	<1.0	<0.46	38	14	15	<0.92
6/11/97	1,602	4.5	<0.22	3.3	6.9	24	12	<0.16	<0.46
9/2/97	1,685	<18	29	210	510	66	21	<0.32	5.7
12/10/97	1,784	<22	530	580	4,200	740	180	<1.6	100
3/9/98	1,875	<31	580	630	3,700	580	150	<1.6	74
6/11/98	1,967	15	220	440	1,800	370	110	<49	36
10/14/98	2,092	19	790	870	3,700	870	210	33	89
12/09/98	2,147	14	1,200	1,000	5,600	1,000	310	< 1.6	130
03/10/99	2,238	29	270	89	850	240	97	<3.2	59
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	18	360	200	1,430	340	110	<3.2	46
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb

 Shading indicates value equals or exceeds the NR 140

 Cross hatching indicates value equals or exceeds the NR 140 preventive

NA: Not analyzed  
MTBE: Methyl t-butyl ether  
ES: Enforcement standard

NS: No standard  
TMB: Trimethylbenzene  
PAL: Preventive action limit

Checked by: DGL  
Approved by: KMS



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results CMW-3**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Operating	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	NA	NA	NA	NA	NA	NA	NA	NA
4/15/92	-281	NA	NA	NA	NA	NA	NA	NA	NA
7/29/92	-176	480	151	928	806	NA	NA	7,371	NA
11/3/92	-79	480	<100	150	140	<100	<100	5,700	NA
2/02/93	12	1,000	930	4,300	7,000	NA	NA	230	NA
4/15/93	84	8.9	1.0	5.1	<3.0	<1.0	<1.0	210	NA
8/18/93	209	<10	<10	<10	98	<10	22	2,900	NA
11/5/93	288	<4.0	<1.0	1.5	9.4	4.5	1.7	2,800	NA
3/11/94	414	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	22	NA
6/6/94	501	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	5.1	NA
9/14/94	601	<1.0	<1.0	<1.0	<3.0	<1.0	1.4	280	NA
12/1/94	679	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	720	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	15	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	6.2	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	13	NA
2/27/96	1,132	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	2	NA
6/4/96	1,230	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	56	NA
9/25/96	1,343	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	100	NA
12/10/96	1,419	NA	NA	NA	NA	NA	NA	NA	NA
2/27/97	1,498	<0.13	<0.22	0.36	<0.23	<0.22	<0.29	<3.6	<0.46
6/11/97	1,602	NA	NA	NA	NA	NA	NA	NA	NA
9/2/97	1,685	<0.13	<0.22	<0.20	0.48	<0.22	<0.29	<0.16	<0.46
12/10/97	1,784	NA	NA	NA	NA	NA	NA	NA	NA
3/9/98	1,875	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	9.9	<0.46
6/11/98	1,967	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	23	<0.46
10/14/98	2,092	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	81	<0.46
12/09/98	2,147	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	62	<1.1
03/10/99	2,238	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	17	<0.46
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES

Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
 MTBE: Methyl t-butyl ether  
 ES: Enforcement standard

NS: No standard  
 TMB: Trimethylbenzene  
 PAL: Preventive action limit

Checked by: DGL

Approved by: KMS



TABLE 4 (Continued)  
Groundwater Quality Analytical Results CMW-4  
Former Citgo Quik Stop Site  
Tomah, Wisconsin

Sample Date	Days Operating	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	NA	NA	NA	NA	NA	NA	NA	NA
4/15/92	-281	NA	NA	NA	NA	NA	NA	NA	NA
7/29/92	-176	8,228	815	6,994	3,842	NA	NA	3,809	NA
11/3/92	-79	5,300	560	4,700	3,000	610	<250	4,600	NA
2/02/93	12	6,000	600	5,500	4,800	1,000	270	5,000	NA
4/15/93	84	1,000	35	480	490	96	38	420	NA
8/18/93	209	560	36	780	810	110	40	130	NA
11/5/93	288	1,300	<100	1,600	5,000	980	320	1,400	NA
3/11/94	414	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	14	NA
6/6/94	501	5.6	<1.0	3.6	3.7	2.1	<1.0	<1.0	NA
9/14/94	601	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	8.4	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	130	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	2.5	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	Abandoned 11/21/95							
2/27/96	1,132								
6/4/96	1,230								
9/25/96	1,343								
12/10/96	1,419								
2/27/97	1,498								
6/11/97	1,602								
9/2/97	1,685								
12/10/97	1,784								
3/9/98	1,875								
6/11/98	1,967								
10/14/98	2,092								
12/09/98	2,147								
03/10/99	2,238								
05/10/99	2,299								
07/01/99	2,360								
NR 140 ES		5	700	343	620	480	60	40	
NR 140 PAL		0.5	140	68.6	124	96	12	8	

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES

Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
MTBE: Methyl t-butyl ether  
ES: Enforcement standard

NS: No standard  
TMB: Trimethylbenzene  
PAL: Preventive action limit

Checked by: DGL  
Approved by: KMS



**TABLE 4**  
**Groundwater Quality Analytical Results MW-1**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene
6/13/91	-588	19	1.8	110	63	NA	NA	<10	NA
9/12/91	-497	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
4/15/92	-281	<1.0	<1.0	1.1	<3.0	<1.0	<1.0	<5.0	<1.0
7/29/92	-176	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
11/3/92	-79	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/02/93	12	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
4/15/93	84	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
8/18/93	209	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
11/5/93	288	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/11/94	414	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/6/94	501	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/14/94	601	<1.0	<1.0	1.6	<3.0	<1.0	<1.0	<1.0	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	NA	NA	NA	NA	NA	NA	NA	NA
2/27/96	1,132	Abandoned 2/2/96							
6/4/96	1,230								
9/25/96	1,343								
12/10/96	1,419								
2/27/97	1,498								
6/11/97	1,602								
9/2/97	1,685								
12/10/97	1,784								
3/9/98	1,875								
6/11/98	1,967								
10/14/98	2,092								
12/09/98	2,147								
03/10/99	2,238								
05/10/99	2,299								
07/01/99	2,360								
NR 140 ES		5	700	343	620	480	60	40	
NR 140 PAL		0.5	140	68.6	124	96	12	8	

Notes:

All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES



Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed

NS: No standard

MTBE: Methyl t-butyl ether

TMB: Trimethylbenzene

ES: Enforcement standard

PAL: Preventive action limit

Checked by: DGL

Approved by: KMS



TABLE 4 (Continued)  
Groundwater Quality Analytical Results MW-2  
Former Citgo Quik Stop Site  
Tomah, Wisconsin

Sample Date	Days Relative to System Startup	Parameters							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene
6/13/91	-588	5,200	<100	2,800	1,600	NA	NA	87	NA
9/12/91	-497	5,800	<100	2,800	2,100	280	200	6,000	NA
4/15/92	-281	7,600	920	3,500	2,700	440	440	4,700	320
7/29/92	-176	7,881	1,048	4,317	3,195	NA	NA	2,942	NA
11/3/92	-79	4,900	670	2,400	2,200	430	<400	4,400	NA
2/02/93	12	3,300	370	1,700	1,400	300	110	1,800	NA
4/15/93	84	3,000	270	650	430	93	59	1,500	NA
8/18/93	209	900	51	160	1,400	240	120	6,000	NA
11/5/93	288	89	28	<50	1,100	110	100	11,000	NA
3/11/94	414	140	610	53	<30	3.6	2.3	1,400	NA
6/6/94	501	93	<50	4,600	3,900	NA	NA	<50	NA
9/14/94	601	40	3.0	10	21	8.6	3.0	170	NA
12/1/94	679	2.4	<1.0	<1.0	<3.0	<1.0	<1.0	80	NA
3/22/95	790	2.7	<1.0	1.8	<3.0	<1.0	<1.0	63	NA
6/20/95	880	3.5	1.1	2.3	8.8	3.7	1.4	55	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	30	21	55	160	36	13	<5.0	NA
2/27/96	1,132	27	17	67	160	48	12	15	NA
6/4/96	1,230	14	9.3	21	100	41	13	<5.0	NA
9/25/96	1,343	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/10/96	1,419	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/27/97	1,498	<0.13	<0.22	0.28	<0.23	<0.22	<0.29	<0.16	0.8
6/11/97	1,602	6.1	3.5	15	23	3.7	<0.29	<0.16	1.2
9/2/97	1,685	0.20	<0.22	0.33	0.83	0.40	<0.29	<0.16	<0.46
12/10/97	1,784	<0.13	0.39	<0.20	0.54	0.45	<0.29	<0.16	<0.46
3/9/98	1,875	<0.13	<0.25	<0.20	<0.23	<0.22	<0.29	<0.16	0.53
6/11/98	1,967	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
10/14/98	2,092	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
12/09/98	2,147	<0.13	0.22	0.21	1.2	0.48	<0.29	<0.21	<1.1
03/10/99	2,238	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES

Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
TMB: Trimethylbenzene

NS: No standard  
ES: Enforcement standard

MTBE: Methyl t-butyl ether  
PAL: Preventive action limit

Checked by: OG  
Approved by: KMS



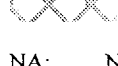
**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results MW-3**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	Parameters							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene
6/13/91	-588	14,000	400	12,500	1,200	NA	NA	870	NA
9/12/91	-497	9,600	400	9,000	5,400	1,100	370	11,000	NA
4/15/92	-281	14,000	1,600	15,000	9,300	1,500	1,600	19,000	690
7/29/92	-176	13,430	1,860	16,440	12,323	NA	NA	10,243	NA
11/3/92	-79	12,000	1,200	14,000	7,800	1,200	<1,000	15,000	NA
2/02/93	12	16,000	1,800	19,000	12,000	1,800	460	16,000	NA
4/15/93	84	10,000	1,200	13,000	7,700	1,200	300	8,300	NA
8/18/93	209	<1.0	<1.0	3.5	14	1.1	1.4	8.1	NA
11/5/93	288	81	130	630	2,600	730	230	140	NA
3/11/94	414	930	18	860	580	85	3.4	480	NA
6/6/94	501	290	18	150	150	30	16	65	NA
9/14/94	601	2.8	<1.0	<1.0	<3.0	<1.0	<1.0	<10	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	2.1	NA
3/22/95	790	10.4	<1.0	1.1	<3.0	<1.0	<1.0	<1.0	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	1.5	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/27/96	1,132	0.73	<1.0	<1.0	<3.0	<1.0	<1.0	2.3	NA
6/4/96	1,230	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
09/25/96	1,343	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/10/96	1,419	NA	NA	NA	NA	NA	NA	NA	NA
2/27/97	1,498	0.28	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
6/11/97	1,602	NA	NA	NA	NA	NA	NA	NA	NA
9/2/97	1,685	<0.13	<0.22	<0.20	0.28	<0.22	<0.29	<0.16	<0.46
12/10/97	1,784	NA	NA	NA	NA	NA	NA	NA	NA
3/9/98	1,875	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
6/11/98	1,967	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
10/14/98	2,092	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
12/09/98	2,147	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<1.1
03/10/99	2,238	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES 140enforcement



Cross hatching indicates value equals or exceeds the NR 140 PAL preventive

NA: Not analyzed

MTBE: Methyl t-butyl ether

ES: Enforcement standard

NS: No standard

TMB: Trimethylbenzene

PAL: Preventive action limit

Checked by: DGL

Approved by: KMS



TABLE 4 (Continued)  
Groundwater Quality Analytical Results MW-4  
Former Citgo Quik Stop Site  
Tomah, Wisconsin

Sample Date	Days Relative to System Startup	Parameters							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	8,600	1,400	9,000	2,700	NA	NA	<10	NA
9/12/91	-497	4,600	1,100	4,500	9,400	3,100	890	2,200	NA
4/15/92	-281	4,500	920	5,000	12,000	2,400	560	840	<1.0
7/29/92	-176	1,343	856	7,456	15,391	NA	NA	49	NA
11/3/92	-79	970	350	1,600	6,300	1,500	350	<100	NA
2/02/93	12	2,200	320	2,200	12,000	2,800	660	320	NA
4/15/93	84	410	120	950	8,700	2,000	500	180	NA
8/18/93	209	2,700	370	3,800	8,500	1,300	420	5,600	NA
11/5/93	288	110	370	1,800	8,800	1,600	470	<20	NA
3/11/94	414	2,600	420	1,400	2,400	460	190	5,800	NA
6/6/94	501	71	19	300	550	57	46	130	NA
9/14/94	601	180	17	68	360	80	46	1,000	NA
12/1/94	679	180	27	<1.0	190	45	23	1,600	NA
3/22/95	790	320	150	640	1,400	170	34	1,400	NA
6/20/95	880	230	100	510	1,400	240	53	87	NA
9/21/95	973	93	42	270	930	150	53	890	NA
12/05/95	1,048	39	<50	140	870	100	<50	51	NA
2/27/96	1,132	NA	NA	NA	NA	NA	NA	NA	NA
6/4/96	1,230	16	<10	43	180	34	<10	<38	NA
9/25/96	1,343	90	49	240	840	120	39	<2.0	NA
12/10/96	1,419	23	8.6	30	110	16	8.7	280	NA
2/27/97	1,498	50	15	30	120	23	13	<200	12
6/11/97	1,602	18	2.8	12	41	8.2	2.4	<0.16	0.74
9/2/97	1,685	3.5	42	730	1,000	87	48	<0.80	7.2
12/10/97	1,784	<0.28	8.1	41	130	8.2	4.4	<0.16	<0.46
3/9/98	1,875	0.47	0.40	0.35	11	1.8	0.73	<0.16	0.53
6/11/98	1,967	<0.13	1.8	11	13	0.93	0.59	<0.50	<0.46
10/14/98	2092	<1.8	700	3,400	5,900	930	250	9.0	92
12/09/98	2,147	< 2.8	980	1,500	6,500	1,100	320	< 1.6	110
03/10/99	2,238	25	130	81	1,500	430	130	<3.2	55
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	1.7	40	39	930	280	110	<1.6	28
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES



Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
MTBE: Methyl t-butyl ether  
ES: Enforcement standard

NS: No standard  
TMB: Trimethylbenzene  
PAL: Preventive action limit

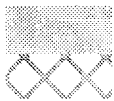
Checked by: DGL  
Approved by: KMS



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results MW-5**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	Parameters							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	4,500	370	2,000	320	NA	NA	230	NA
9/12/91	-497	2,100	<100	1,300	1,100	290	<100	3,500	NA
4/15/92	-281	4,700	710	2,600	2,100	230	120	9,000	224
7/29/92	-176	4,633	756	2,960	2,349	NA	NA	5,286	NA
11/3/92	-79	3,300	580	2,200	1,800	340	<200	8,500	NA
2/02/93	12	4,100	670	2,100	1,800	390	68	9,300	NA
4/15/93	84	2,700	210	590	520	130	63	5,800	NA
8/18/93	209	920	37	100	130	30	<20	2,200	NA
11/5/93	288	510	29	75	<70	21	<20	1,500	NA
3/11/94	414	650	58	45	27	1.4	<1.0	1,100	NA
6/6/94	501	160	15	5.7	22	NA	NA	14	NA
9/14/94	601	13	<1.0	1.7	3.5	1.0	<1.0	<1.0	NA
12/1/94	679	8.2	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/22/95	790	3.9	<1.0	1.4	<3.0	<1.0	<1.0	<1.0	NA
6/20/95	880	15	3.7	13	19	4.2	1.3	2.9	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	130	51	180	290	59	14	<60	NA
2/27/96	1,132	66	28	130	160	29	<10.0	17	NA
6/4/96	1,230	56	34	150	190	31	8.4	<5.0	NA
9/25/96	1,343	11	8.1	31	46	6.3	2.2	<1.0	NA
12/10/96	1,419	2.7	1.1	4.2	6.3	<1.0	<1.0	<1.0	NA
2/27/97	1,498	13	7.4	23	38	3.3	0.44	5.4	3.8
6/11/97	1,602	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
9/2/97	1,685	<0.13	<0.22	<0.20	0.32	<0.22	<0.29	<0.16	<0.46
12/10/97	1,784	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
3/9/98	1,875	0.19	<0.22	<0.20	1.0	0.62	<0.29	<0.16	1.8
6/11/98	1,967	<0.13	<0.22	0.36	0.72	<0.22	<0.29	<0.16	<0.46
10/14/98	2,092	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
12/09/98	2,147	0.17	<0.22	<0.20	0.25	<0.22	<0.29	0.42	<1.1
03/10/99	2,238	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES

Cross hatching indicates value equals or exceeds the NR 140 PAL

NA: Not analyzed  
 MTBE: Methyl t-butyl ether  
 ES: Enforcement standard

NS: No standard  
 TMB: Trimethylbenzene  
 PAL: Preventive action limit

Checked by: DGL  
 Approved by: KMS



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results MW-6**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	NA
4/15/92	-281	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0
7/29/92	-176	<1.0	<1.0	<1.0	<3.0	NA	NA	<1.0	NA
11/3/92	-79	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/02/93	12	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
4/15/93	84	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
8/18/93	209	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
11/5/93	288	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/11/94	414	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/6/94	501	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/14/94	601	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	Abandoned 11/21/95							
2/27/96	1,132								
6/4/96	1,230								
9/25/96	1,343								
12/10/96	1,419								
2/27/97	1,498								
6/11/97	1,602								
9/2/97	1,685								
12/10/97	1,784								
3/9/98	1,875								
6/11/98	1,967								
10/14/98	2,092								
12/09/98	2,147								
03/10/99	2,238								
05/10/99	2,299								
07/01/99	2,360								
NR 140 ES		5	700	343	620	480	60	40	
NR 140 PAL		0.5	140	68.6	124	96	12	8	

Notes: All results are reported in ppb

NA: Not analyzed

MTBE: Methyl t-butyl ether

ES: Enforcement standard

NS: No standard

TMB: Trimethylbenzene

PAL: Preventive action limit

Checked by: DGL

Approved by: KMS



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results MW-7**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample Date	Days Relative to System Startup	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4 TMB	1,3,5 TMB	MTBE	Naphthalene
6/13/91	-588	NA	NA	NA	NA	NA	NA	NA	NA
9/12/91	-497	2.7	1.4	2.0	9.2	3.6	1.1	3.2	NA
4/15/92	-281	11	<1.0	21	<1.0	<1.0	<1.0	<5.0	<1.0
7/29/92	-176	1,221	1,432	4,001	8,006	NA	NA	439	NA
11/3/92	-79	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/02/93	12	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
4/15/93	84	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
8/18/93	209	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
11/5/93	288	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/11/94	414	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/6/94	501	NA	NA	NA	NA	NA	NA	NA	NA
9/14/94	601	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/1/94	679	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
3/22/95	790	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
6/20/95	880	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
9/21/95	973	<0.50	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/05/95	1,048	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
2/27/96	1,132	NA	NA	NA	NA	NA	NA	NA	NA
6/4/96	1,230	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
09/25/96	1,343	<0.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA
12/10/96	1,419	NA	NA	NA	NA	NA	NA	NA	NA
2/27/97	1,498	<0.13	<0.22	0.46	<0.23	<0.22	<0.29	<0.30	<0.46
6/11/97	1,602	NA	NA	NA	NA	NA	NA	NA	NA
9/2/97	1,685	<0.13	<0.22	<0.20	0.25	<0.22	<0.29	<0.16	<0.46
12/10/97	1,784	NA	NA	NA	NA	NA	NA	NA	NA
3/9/98	1,875	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
6/11/98	1,967	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
10/14/98	2,092	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
12/09/98	2,147	0.14	<0.22	<0.20	0.62	0.23	<0.29	<0.16	<1.1
03/10/99	2,238	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16	<0.46
05/10/99	2,299	NA	NA	NA	NA	NA	NA	NA	NA
07/01/99	2,360	NA	NA	NA	NA	NA	NA	NA	NA
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb



Shading indicates value equals or exceeds the NR 140 ES

Cross hatching indicates value equals or exceeds the NR 140 PAL.

NA: Not analyzed

MTBE: Methyl t-butyl ether

ES: Enforcement standard

NS: No standard

TMB: Trimethylbenzene

PAL: Preventive action limit


Checked by: DGL  
 Approved by: RMS



**TABLE 4 (Continued)**  
**Groundwater Quality Analytical Results MW-10 and MW-11**  
**Former Citgo Quik Stop Site**  
**Tomah, Wisconsin**

Sample	Sample Date	PARAMETERS							
		Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4- TMB	1,3,5- TMB	MTBE	Naphthalene
MW-10	5/10/99	<6.5	1,500	1,700	6,200	1,300	440	<5.5	NA
	07/01/99	<14	1,500	480	6,000	1,300	420	<16	110
MW-11	5/10/99	3,100	4,100	28,000	20,600	2,800	790	<55	NA
	07/01/99	2,300	4,600	31,000	25,100	2,800	680	<64	300
NR 140 ES		5	700	343	620	480		60	40
NR 140 PAL		0.5	140	68.6	124	96		12	8

Notes: All results are reported in ppb

 Shading indicates value equals or exceeds the NR 140 ES

NA: Not analyzed

NS: No standard

MTBE: Methyl t-butyl ether

TMB: Trimethylbenzene

ES: Enforcement standard

PAL: Preventive action limit

Checked by: DGL

Approved by: KMS